

WHAT IS CLAIMED IS:

1. A method of supplying liquid to be applied
by a liquid applicator having a liquid ejection
section, from a liquid supply member arranged in a
5 liquid supply section to said liquid ejection section,
said liquid ejection section having a plurality
of sets of a liquid ejecting nozzle, a liquid
containing section communicating with the liquid
ejecting nozzle and a supply port for supplying
10 liquid to the liquid containing section,
said liquid supply member and/or said liquid
ejection section being provided with an information
recording body storing information, said method
comprising:
15 reading said information; and
supplying liquid to be applied from said liquid
supply member to said liquid containing sections by
way of said supply ports according to said
information.
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2. A method according to claim 1, wherein said
liquid supply section has a plurality of syringes
arranged so as to simultaneously supply liquid to
said plurality of supply ports.
- 25 3. A method according to claim 2, wherein both
said plurality of syringes of the liquid supply

section and said plurality of supply ports of the liquid ejection section are arranged in rows and columns and the pitch of arrangement of said syringes is equal to integer times of the pitch of arrangement of said supply ports, the integer being equal to or greater than 2, liquid being supplied to said liquid containing sections by operating said syringes for a plurality of times.

10 4. A method according to claim 1, wherein liquid is supplied from said liquid supply member to said liquid containing sections according to the information recorded in the information recording body provided at said liquid supply members and said liquid ejection section when the amount of liquid remaining in said liquid containing sections of the liquid ejection section falls to a predetermined level.

20 5. A method according to claim 1, wherein the information recording body provided at said liquid ejection section contains at least information indicating that said liquid ejection section is a liquid receiving side.

25 6. A method according to claim 1, wherein said liquid supply member comprises a plurality of well

plates, each carrying a plurality of wells formed therein, that can store different types of liquid and each of the members is provided with an information recording body containing at least information
5 indicating that it is a liquid supplying side, information specifying a region for the liquid containing sections and information indicating the time limit of use and the authorized number of times of supply of liquid contained in said liquid supply
10 member.

7. A method according to claim 1, further comprising a step of storing the amount of liquid remaining in said liquid containing sections.
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8. A method according to claim 1, wherein liquid is applied by inkjet application means adapted to eject liquid from said nozzles.

20 9. A method according to claim 8, wherein liquid is ejected from said nozzles by utilizing thermal energy.

25 10. A method according to claim 9, wherein liquid is ejected from said nozzles by utilizing film boiling produced by liquid due to thermal energy.

11. A liquid applicator comprising:

a liquid ejection section having a plurality of sets of a liquid ejecting nozzle adapted to eject liquid onto a medium, a liquid containing section
5 communicating with the liquid ejecting nozzle and a supply port for supplying liquid to the liquid containing section;

a liquid supply section having a liquid supply member arranged therein to store liquid to be applied
10 and adapted to supply liquid to said liquid containing sections by way of the supply ports;

an information recording body arranged at the liquid ejection section and/or the liquid supply member of the liquid supply section; and

15 an information reading device adapted to read information recorded in the information recording body.

12. An applicator according to claim 11,
20 wherein said liquid supply section has a plurality of syringes and a plurality of drive sections.

13. An applicator according to claim 11,
wherein the supply ports of said liquid ejection
25 section are arranged on a plane.

14. An applicator according to claim 12,

wherein said plurality of syringes of the liquid supply section and said plurality of supply ports of the liquid ejection section are arranged in rows and columns and the pitch of arrangement of said
5 plurality of syringes and that of said plurality of supply ports correspond to each other.

15. An applicator according to claim 11,
wherein said liquid supply member comprises a
10 plurality of well plates, each carrying a plurality of wells formed therein, that can store different types of liquid.

16. An applicator according to claim 11,
15 wherein said information recording body provided at the liquid ejection section contains at least information indicating that the liquid ejection section is a liquid receiving side.

20 17. An applicator according to claim 11,
wherein said liquid containing sections and said nozzles of the liquid ejection section are integrally formed and said plurality of sets are partly replaceable.

25 18. An applicator according to claim 11,
wherein said liquid supply member comprises a

plurality of well plates, each carrying a plurality of wells formed therein, that can store different types of liquid and each of the members is provided with an information recording body containing at least information indicating that it is a liquid supplying side, information specifying a region for the liquid containing sections and information indicating the time limit of use and the authorized number of times of supply of liquid contained in said liquid supply member.

19. An applicator according to claim 18, further comprising a memory section storing the number of times of liquid supply of each of said wells of said well plates.

20. An applicator according to claim 11, further comprising means for controlling the amount of liquid remaining in said liquid containing sections.

21. An applicator according to claim 11, wherein said information recording body has bar codes.

22. An applicator according to claim 11, wherein said liquid ejection section has an ink-jet application means for ejecting liquid from said

nozzles.

23. An applicator according to claim 22,
further comprising electrothermal transducers for
5 generating thermal energy to be used to eject liquid.

24. An applicator according to claim 23,
wherein liquid is ejected from ejection ports by
utilizing film boiling produced by liquid due to
10 thermal energy generated by said electrothermal
transducers.

25. A lid for covering said liquid supply
member or said liquid ejection section of a liquid
15 applicator according to claim 11 adapted to cover all
or part of said information recording body.